

Patent Abstracts of Japan

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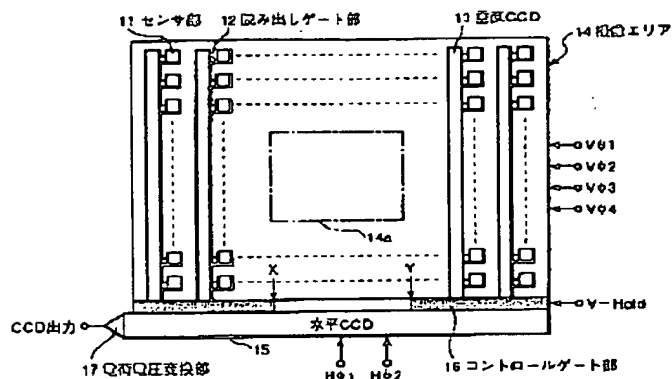
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TITLE : SOLID STATE IMAGING APPARATUS
AND CAMERA USING THE SAME



ABSTRACT : PROBLEM TO BE SOLVED: To align the imaging area center with the optical center to enable the high speed imaging without increasing the driving frequency by selectively inhibiting the signal charge transfer from a vertical transfer part to a horizontal transfer part at a horizontal region.

SOLUTION: On an imaging area 14, a plurality of sensors 11, read gates 12 and vertical CCDs 13 are formed in the vertical and horizontal directions with horizontal CCDs 15 disposed at the lower side of the imaging area 14, thereby sequentially transferring signal charges corresponding to one line from the vertical CCDs 13. Between the vertical and horizontal CCDs 13, 15 transfer control gates 16 are provided. At an imaging mode, the signal charges are transferred from the vertical CCDs 13 to the horizontal CCDs 15, while at a high speed imaging mode the control gates 16 inhibit the signal charges at the horizontal ends from transferring to the CCDs 15, but transfer only the signal charges at the center 14 to the CCDs 15.

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